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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,816		03/09/2004	Hideki Sunaga	CREO-004	6056
23900	7590	01/18/2006		EXAMINER	
J C PATE			IP, SHIK LUEN PAUL		
4 VENTUR IRVINE, C			ART UNIT PAPER NUMBER		
ŕ				2837	-
				DATE MAILED: 01/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	T		<u>RH</u>
	Application No.	Applicant(s)	
Office Action Commence	10/797,816	SUNAGA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Paul Ip	. 2837	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI (136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u>.</u> .		
	s action is non-final.		
3) Since this application is in condition for allowa	nce except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.[). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-6 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		,	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 09 March 2004 is/are:		jected to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	tion is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	,
 Certified copies of the priority document 	s have been received.		
2. Certified copies of the priority document			
3. Copies of the certified copies of the prior		received in this National Stage	
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a list	of the certified copies not	received.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) T Interview :	Summary (PTO-413)	
?) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/9/2004.	5) Notice of I	nformal Patent Application (PTO-152)	

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 3/9/2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by 4. Nakamura et al (2004/0027105 or 6,891,342), Priority Papers 2002-231433 and 2002-233022).

With respect to claims 1 and 4-6, see figure 2 for the carrier signal output section 35A, phase shift circuit 35C, and comparators 300A and 300B and the reversal carrier signals in figure 3. Nakamura et al disclose at the background of the invention that the control circuit is used for cooling fans of vehicles.

With respect to claims 2 and 3, since Nakamura et al disclose the duty factor calculation as shown in figure 5 of the description, it is inherent to calculate the phase difference as recited in claims 2 and 3.

Citation of Pertinent References

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The patents to Furukawa et al (6,704,212), Okuyama et al (6,088,246), Fujii et al (4,802,077), Fu (6,775,158), Nakatani et al (6,388,416), and Sakurai et al (5,627,441) are PWM control systems including comparators and phase difference setting portion.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Ip whose telephone number is (571)-272-1941. The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm. , Art Unit: 2837

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin, can be reached on 571-272-2107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul lp

Primary Examiner Art Unit 2837

01/17/2006